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		\$			

```
Version: 'V04-000'
```

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Author Brian Porter

Creation date: 16-JUL-1982

Functional description:

This module displays events logged by the BSDRIVER (dt07).

Modified by:

V03-003 SAR0216 Sharon A. Reynolds, 28-Mar-1984 Changed the call to UCB\$L_OWNUIC to ORB\$L_OWNER.

V03-002 SAR0065 Sharon A. Reynolds, 20-Jun-1983 Changed the carriage control in the 'format' statements for use with ERF.

V03-001 SAR0037 Sharon A. Reynolds, 8-Jun-1983 Removed brief/cryptic support.

Subroutine BSDRIVER (lun)

include 'src\$:msghdr.for /nolist'
include 'src\$:deverr.for /nolist'

byte

lun

BL

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER: [ERF.SRC]BSDRIVER.FOR; 1

```
F 13
16-Sep-1984 00:00:33
5-Sep-1984 13:48:56
BSDRIVER
ucb$b_bs_errmsg
ucb$l_devdepend
ucb$l_bs_cur
ucb$l_bs_pre
                                                   integer*4
                                                   integer*4
                                                   integer*4
                                                  integer*4
                                                                                                  (emb$l_dv_regsav(0),ucb$b_bs_errmsg)
(emb$l_dv_regsav(1),ucb$l_devdepend)
(emb$l_dv_regsav(2),ucb$l_bs_cur)
(emb$l_dv_regsav(3),ucb$l_bs_pre)
                                                  equivalence
                                                  equivalence
                                                  equivalence
                                                  equivalence
                                                                       er*32    v1ucb$l_devdepend(0:12)
v1ucb$l_devdepend(0) /''OWNER'', CURRENT PROCESS*'/
v1ucb$l_devdepend(1) /'ATTENTION AST ENABLED*'/
v1ucb$l_devdepend(2) /'SWITCHED BUS IN USE*'/
v1ucb$l_devdepend(3) /'PORT HAS PRIMARY STATUS*'/
v1ucb$l_devdepend(4) /'CURRENTLY IN PROGRAM MODE*'/
v1ucb$l_devdepend(5) /'CURRENTLY IN MANUAL MODE*'/
v1ucb$l_devdepend(6) /'DRIVER STATUS INITIALIZED*'/
v1ucb$l_devdepend(6) /'SWITCHED DEVICES MARKED OFFLINE*'/
v1ucb$l_devdepend(8) /'SWITCHED BUS DISCONNECT-IN-PROG*'/
v1ucb$l_devdepend(9) /'SWITCHED BUS CONNECT-IN-PROG*'/
v1ucb$l_devdepend(10)/'SWITCHED BUS CONNECTED*'/
v1ucb$l_devdepend(11)/''UBA'' INITIALIZE-IN-PROGRESS*'/
v1ucb$l_devdepend(12)/'DEVICE INTERRUPT DISABLED*'/
                                                 character*32
                                                  data
                                                  data
                                                 data
                                                                                                  v1csr(0:15)
                                                 character*31
                                                                         v1csr(0)
v1csr(1)
                                                                                                                          /'REQUEST*'/
/'HOLD*'/
                                                 data
                                                 data
                                                                                                                        /'HOLD*'/
/'REQUEST LINE #0*'/
/'REQUEST LINE #1*'/
/'REQUEST LINE #2*'/
/'REQUEST LINE #3*'/
/'INTERRUPT ENABLE*'/
/'PORT CONNECTED TO SWITCHED BUS*'/
/'PORT REQUESTING MASTERSHIP*'/
/'GENERATE RESET PULSE*'/
/'PORT IN MANUAL MODE*'/
/'POWER-OK OTHER PORTS*'/
/'EXTERNAL INTERRUPT*'/
/'SWITCHED BUS ACTIVE*'/
/'SWITCHED BUS POWER-FAILURE*'/
/'TIMEOUT*'/
                                                                         v1csr(2)
v1csr(3)
v1csr(4)
v1csr(5)
                                                 data
                                                 data
                                                 data
                                                 data
                                                                         v1csr(6)
v1csr(7)
                                                 data
                                                 data
                                                                         v1csr(8)
v1csr(9)
v1csr(10)
v1csr(11)
                                                 data
                                                 data
                                                 data
                                                 data
                                                                         v1csr(12)
v1csr(13)
                                                 data
                                                 data
                                                  data
                                                                          v1csr(14)
                                                                          v1csr(15)
                                                                                                                           /'TIMEOUT*'/
                                                 data
                                                 call frctof (lun)
                                                 call dhead1 (lun, 'UBA DT07')
                                                 call linchk (lun,1)
                                                 call ucb$$b_bs_errmsg (lun,ucb$b_bs_errmsg)
```

call linchk (lun,2)

```
BSDRIVER
                                                                                                     VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]BSDRIVER.FOR;
                                                                                                                                                       3
                  write(lun,20) 'DT07 'CSR', CURRENT CONTENTS'
format(/' ',a)
         20
                  call linchk (lun,2)
                  write(lun,25) ucb$l_bs_cur
format(/' ',t8,'UCB$L_BS_CUR',t24,z8.8)
         25
                  call output (lun,ucb$l_bs_cur,v1csr,0,0,15,'0')
                  call linchk (lun.2)
                  write(lun,20) 'DT07 'CSR', PREVIOUS CONTENTS'
                  call linchk (lun,2)
                  write(lun,30) ucb$l_bs_pre
format(/' ',t8,'UCB$L_BS_PRE',t24,z8.8)
         30
                  call output (lun,ucb$l_bs_pre,v1csr,0,0,15,'0')
                  call linchk (lun,1)
                  write(lun,32)
format(',:)
         32
                  call orb$l_owner (lun,emb$l_dv_ownuic)
                  call ucb$l_char (lun,emb$l_dv_char)
                  call ucb$w_sts (lun,emb$w_dv_sts)
                  call linchk (lun,1)
                  write(lun,35) ucb$l_devdepend
format(' ',t8,'UCB$L_DEVDEPEND',t24,z8.8)
         35
                  call output (lun,ucb$l_devdepend,v1ucb$l_devdepend,0,0,12,'0')
                  call ucb$l_opcnt (lun,emb$l_dv_opcnt)
                  call ucb$w_errcnt (lun,emb$w_dv_errcnt)
                  if (emb$w_hd_entry .ne. 98) then
                  call linchk (lun,1)
                  write(lun,32)
                  if (emb$w_dv_func .eq. 2) then
                  call irp$w_func (lun,emb$w_dv_func,'10$_READEXT*')
                  else if (emb$w_dv_func .eq. 5) then
                  call irp$w_func (lun,emb$w_dv_func,'IO$_DISCONNECT*')
```

```
H 13
16-Sep-1984 00:00:33
5-Sep-1984 13:48:56
BSDRIVER
                                                                                                                                                                                            VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]BSDRIVER.FOR; 1
                                  else if (emb$w_dv_func .eq. 50) then
                                  call irp$w_func (lun,emb$w_dv_func,'IO$_CONNECT*')
                                  else
                                  call irp$w_func (lun,emb$w_dv_func,'QIO FUNCTION CODE*')
endif
                                  call irp$l_pid (lun,emb$l_dv_rqpid)
                                  call irp$q_iosb (lun,emb$l_dv_iosb1)
endif
                                  return
                                  end
PROGRAM SECTIONS
         Name
                                                                                                         Attributes
                                                                                       Bytes
                                                                                                        PIC CON REL LCL SHR EXE PIC CON REL LCL SHR NOEXE PIC CON REL LCL NOSHR NOEXE PIC OVR REL GBL SHR NOEXE
                                                                                         625
240
1340
512
        SCODE
                                                                                                                                                                               NOWRT LONG
         SPDATA
                                                                                                                                                                         RD
                                                                                                                                                                               NOWRT LONG
    2 $LO
        $LOCAL
                                                                                                                                                                         RD
                                                                                                                                                                                   WRT
                                                                                                                                                                                            LONG
                                                                                                                                                                                   WRT LONG
                                                                                         2717
         Total Space Allocated
ENTRY POINTS
        Address Type Name
    0-00000000
                                         BSDRIVER
VARIABLES
                                                                                                                      Address Type
         Address Type Name
                                                                                                                                                    Name
                                                                                                                 3-00000010
3-0000001D
3-00000012
3-00000026
3-0000002E
3-0000003F
3-0000003C
3-00000022
3-0000002A
3-0000005E
                                                                                                                                                    EMB$B_DV_ERTCNT
EMB$B_DV_NAMLNG
EMB$B_DV_TYPE
EMB$L_DV_IOSB1
EMB$L_DV_MEDIA
EMB$L_DV_OPCNT
EMB$L_DV_RQPID
EMB$T_DV_NAME
EMB$W_DV_BOFF
EMB$W_DV_FUNC
EMB$W_DV_UNIT
EMB$W_DV_UNIT
EMB$W_HD_ERRSEQ
UCB$L_BS_PRE
                                        EMB$B_DV_CLASS
EMB$B_DV_ERTMAX
EMB$B_DV_SLAVE
EMB$L_DV_CHAR
EMB$L_DV_IOSB2
EMB$L_DV_NUMREG
EMB$L_DV_OWNUIC
EMB$L_HD_SID
EMB$W_DV_BCNT
EMB$W_DV_ERRCNT
EMB$W_DV_STS
EMB$W_HD_ENTRY
LUN
        -0000001c
-00000011
                                                                                                                                          L*1
                              L+1
        -0000003A
-00000036
                                                                                                                                          L+1
I+4
                              L+1
                              1+4
    3-00000036

3-00000016

3-00000032

3-00000000

3-00000024

3-0000001A

3-0000001A

AP-00000004

AP-00000004
                               1+4
                                                                                                                                            1+4
                               1+4
                                                                                                                                            I +4
                               1+4
                                                                                                                                            1+4
                              I*4
I*2
I*2
I*2
L*1
                                                                                                                                           CHAR
                                                                                                                                           I * 2
I * 2
I * 2
I * 4
                                         UCB$L_BS_CUR
```

BI

BSDRIVER							I 13 16-Sep-1984 00: 5-Sep-1984 13:	:00:33	VAX-11 FORTRAN V3.4-56 Page DISK\$VMSMASTER: [ERF.SRC]BSDRIVER.FOR; 1
3-00000056	1+4	UCB\$L_DEVDEPEND							
ARRAYS									
Address T	уре	Name				Bytes	Dimensions		
3-0000000 3-00000052 3-00000006 2-00001A0	L*1 I*4 I*4	EMB EMB\$L_DV_REGSAV EMB\$Q_HD_TIME				512 420	(0:511) (0:104) (2)		
2-000001A0 2-00000000	CHAR	EMB\$L_DV_REGSAV EMB\$Q_HD_TIME V1CSR V1UCB\$L_DEVDEPEN	ND			496 416	(0:15) (0:12)		
LABELS									
Address	Label	Address	Label		Address	Label	Address	Label	Address Label
1-00000095	20'	1-0000009B	25'	1-	000000B5	30'	1-000000CF	32'	1-000000D4 35°
FUNCTIONS AND	SUBRO	UTINES REFERENCE	D						
Type Name				Type	Name			Туре	Name
DHEAD1 IRP\$Q ORB\$L UCB\$L UCB\$W	IOSB OWNER CHAR STS				FRCTOF IRP\$W_FUN OUTPUT UCB\$L_OPC				IRP\$L_PID LINCHR UCB\$\$B_BS_ERRMSG UCB\$W_ERRCNT

C**Re-written routine, delete old one after testing.

BI

7

Page

VAX-11 FORTRAN V3.4-56
DISK\$VMSMASTER: [ERF.SRC]BSDRIVER.FOR; 1

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16-Sep-1984 00:00:33
5-Sep-1984 13:48:56
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                                                                 Subroutine UCB$$B_BS_ERRMSG (lun,ucb$b_bs_errmsg)
                                                                 byte
                                                                                                                                Lun
                                                                 integer*4
                                                                                                                                ucb$b_bs_errmsq
                                                                                                                               Swi_bus, manual, prog, conn, dis_conn, fail MsgT,msg2,msg3
                                                                 Character*(*)
                                                                 Character*(*)
                                                                 Character*80
                                                                                                                                Message
                                                                 Parameter
                                                                Parameter

1 Swi_bus = 'SWITCHED BUS, ',

2 Manual = 'MANUAL',

3 Prog = 'PROGRAMABLE',

4 Fail = 'POWER-FAILURE',

5 Conn = 'CONNECT TO THIS PORT',
                                                                 6 Dis_conn = 'DISCONNECT FROM THIS PORT',
                                                               1 Msg1 = '''UBA'' INITIALIZE IN PROGRESS',
2 Msg2 = 'PORT HAS RECEIVED UNRECOGNIZED INTERRUPT',
3 Msg3 = 'PORT HAS ENCOUNTERED ILLEGAL CONDITION')
                                                                call linchk (lun.2)
                                                                 Goto (10,20,30,40,50,60,70,80) ucb$b_bs_errmsg
                                                                write(lun,15) ucb$b_bs_errmsg
format(/' ',t8,'UCB$B_BS_ERRMSG',t24,z8.8)
                                15
                                                                 return
                                                                Message = swi_bus // manual // conn
Length = len (swi_bus) + len (manual) + len (conn)
                                10
                                                                 Goto 999
                                                                Message = swi_bus // manual // dis_conn
Length = len (swi_bus) + len (manual) + len (dis_conn)
                                20
                                                                 Goto 999
                                30
                                                                Message = swi_bus // fail // dis_conn
Length = len (swi_bus) + len (fail) + len (dis_conn)
                                                                 Goto 999
                                40
                                                                Message = swi_bus // prog // dis_conn
Length = len (swi_bus) + len (prog) + len (dis_conn)
                                                                 Goto 999
                                 50
                                                                Message = swi_bus // prog // conn
Length = len (swi_bus) + len (prog) + len (conn)
                                                                 Goto 999
                                60
                                                                 Message = msg1
                                                                 Length = len (msg1)
                                                                 Goto 999
                                 70
                                                                 Message = msg2
                                                                 Length = len (msg2)
                                                                 Goto 999
```

BI

8

UCB\$\$B_BS_ERRMSG Message = msg3 Length = len (msg3) 80 999 write(lun,998) Message
format(/' ',t8,a<length>) Return End

PROGRAM SECTIONS

Attributes Name Bytes 0 SCODE 1 SPDATA

PIC CON REL LCL SHR NOEXE PIC CON REL LCL NOSHR NOEXE RD NOWRT LONG RD NOWRT LONG RD WRT LONG 2 \$LOCAL

782 Total Space Allocated

ENTRY POINTS

Address Type Name

0-00000000 UCB\$\$B_BS_ERRMSG

VARIABLES

Address Type Name Address Type Name

2-00000050 2-00000000 AP-00000004a L*1 LUN AP-00000008a I*4 UCB\$B_BS_ERRMSG I*4 LENGTH CHAR MESSAGE

LABELS

Address Label Address Label Address Address Label Label Address Label Address Label 1-00000004 0-00000004 0-0000004E 0-000000C2 0-00000066 0-000000E6 30 0-00000094 0-000000F6 0-0000007D 0-000000AB 50 1-00000021

FUNCTIONS AND SUBROUTINES REFERENCED

Type Name

LINCHK

end

BI

PF

EI

V

N 13 16-Sep-1984 00:00:33 VAX-11 FORTRAN V3.4-56 Page 10 5-Sep-1984 13:48:56 DISK\$VMSMASTER: [ERF.SRC]BSDRIVER.FOR;1

COMMAND QUALIFIERS

FORTRAN /LIS=LIS\$:BSDRIVER/OBJ=OBJ\$:BSDRIVER MSRC\$:BSDRIVER

/CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
/DEBUG=(NOSYMBOLS,TRACEBACK)
/STANDARD=(NOSYNTAX,NOSOURCE_FORM)
/SHOW=(NOPREPROCESSOR,NOINCLODE,MAP)
/F77 /NOG_FLOATING /14 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19

COMPILATION STATISTICS

Run Time: 4.39 seconds Elapsed Time: 17.23 seconds Page faults: 179 Dynamic Memory: 182 pages

BI

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CORPORATION EQUIPMENT DIGITAL AH-BT13A-SE 0146 CONFIDENTIAL AND PROPRIETARY VAX/VMS V4.0 N ESS N ESSEN II Y 1985 III EINA. Townson THE E F OPCODES FOR TIME THE THE FIRST IS j. N. K. F 888 11 THE A 500 8,500 as ****

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